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=> s malted cereal?

L1 11 MALTED CEREAL?

=> s barley malt

L2 854 BARLEY MALT

=> s wheat malt

67 WHEAT MALT L3

=> s malted wheat

25 MALTED WHEAT L4

=> s 11 or 12 or 13 or 14

937 L1 OR L2 OR L3 OR L4

=> s antisecretory (w) protein?

18 ANTISECRETORY (W) PROTEIN?

=> s 16 and 15

=> d iall

ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1998:229583 CAPLUS

DOCUMENT NUMBER: 128:229665

TITLE: Foodstuffs made from malted cereals

which when consumed can induce antisecretory

proteins

INVENTOR(S): Goeransson, Leif; Lange, Stefan; Loennroth, Ivar PATENT ASSIGNEE(S): Svenska Lantmaennen Riksfoerbund Ek Foer, Swed.

Swed., 8 pp. CODEN: SSXXAY SOURCE:

DOCUMENT TYPE: Patent

LANGUAGE: Swedish

INT. PATENT CLASSIF.:

MAIN: A23K001-16

SECONDARY: A23K001-165; A23L001-10; A23L001-185

CLASSIFICATION: 17-11 (Food and Feed Chemistry) Section cross-reference(s): 1, 63

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE -----

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C2
     SE 506486
                              19971222
                                              SE 1996-4251
                                                                  19961120
     SE 9604251
                         Α
                               19971222
                                               WO 1997-SE1918
     WO 9821978
                         A1
                              19980528
                                                                  19971114
         W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
              PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US,
         UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR,
              GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
              GN, ML, MR, NE, SN, TD, TG
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                        A1
                              19980610
                                               AU 1998-50771
                                                                  19971114
     AU 719051
                         B2
                              20000504
     EP 942660
                        A1
                             19990922
                                               EP 1997-913633
                                                                  19971114
         R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
              IE, LT, LV, FI
     NO 9902411
                              19990520
                       Α
                                               NO 1999-2411
                                                                  19990520
PRIORITY APPLN. INFO.:
                                               SE 1996-4251
                                                                  19961120
                                               WO 1997-SE1918
                                                                  19971114
ABSTRACT:
Products are disclosed which have enzymic activity for prodn. of foodstuffs,
including fodder, which after consumption can induce antisecretory
***proteins*** , as well as foodstuffs produced in this manner. Products
enzymic activity can be, e.g., malted cereals. These
products can be used to prevent excessive gastroenteric secretion and loss of
electrolytes.
SUPPL. TERM:
                     antidiarrheal foodstuff malted cereal
                     antisecretory
INDEX TERM:
                     Proteins (specific proteins and subclasses)
                     ROLE: BPN (Biosynthetic preparation); FFD (Food or feed
                     use); PEP (Physical, engineering or chemical process); BIOL
                     (Biological study); PREP (Preparation); PROC (Process);
USES
                     (Uses)
                        (antisecretory; foodstuffs made from malted
                      cereals which when consumed can induce
                      antisecretory proteins)
INDEX TERM:
                     Breakfast cereal
                        (flakes; foodstuffs made from malted
                      cereals which when consumed can induce
                      antisecretory proteins)
INDEX TERM:
                     Antidiarrheals
                     Barley
                     Bread
                     Cereal (grain)
                     Corn
                     Fodder
                     Malt
                    Oat
                     Pasta
                     Rye
                     Sorghum
                     Wheat
                        (foodstuffs made from malted cereals
                        which when consumed can induce antisecretory
                     proteins)
INDEX TERM:
                     Enzymes, biological studies
                     ROLE: BPN (Biosynthetic preparation); FFD (Food or feed
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use); PEP (Physical, engineering or chemical process); THU

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(Therapeutic use); BIOL (Biological study); PREP
                   (Preparation); PROC (Process); USES (Uses)
                       (foodstuffs made from malted cereals
                      which when consumed can induce antisecretory
                    proteins)
                   Secretion (process)
INDEX TERM:
                       (gastrointestinal; foodstuffs made from malted
                    cereals which when consumed can induce
                    antisecretory proteins)
INDEX TERM:
                   Dehydration (physiological)
                       (inhibitors; foodstuffs made from malted
                    cereals which when consumed can induce
                    antisecretory proteins)
                   Bakery products
INDEX TERM:
                       (rolls; foodstuffs made from malted
                    cereals which when consumed can induce
                    antisecretory proteins)
=> s secretion
L8
        385974 SECRETION
=> d hist
     (FILE 'HOME' ENTERED AT 12:40:54 ON 02 SEP 2000)
     FILE 'MEDLINE, CAPLUS' ENTERED AT 12:41:07 ON 02 SEP 2000
L1
             11 S MALTED CEREAL?
L2
            854 S BARLEY MALT
L3
             67 S WHEAT MALT
L4
             25 S MALTED WHEAT
            937 S L1 OR L2 OR L3 OR L4
L5
             18 S ANTISECRETORY (W) PROTEIN?
L6
L7
              1 S L6 AND L5
         385974 S SECRETION
1.8
=> s 18 and 15
L9
             4 L8 AND L5
=> d ibib abs 1-4
     ANSWER 1 OF 4 MEDLINE
ACCESSION NUMBER:
                    95169365
                                 MEDLINE
DOCUMENT NUMBER:
                    95169365
TITLE:
                    Purification of secreted alpha-amylases by immunoaffinity
                    chromatography with cross-reactive antibody.
AUTHOR:
                    Katoh S; Terashima M
CORPORATE SOURCE:
                    Department of Synthetic Chemistry and Biological
Chemistry,
                    Kyoto University, Japan..
SOURCE:
                    APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, (1994 Oct) 42 (1)
                    36-9.
                    Journal code: AMC. ISSN: 0175-7598.
                    GERMANY: Germany, Federal Republic of
PUB. COUNTRY:
                    Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:
                    English
```

FILE SEGMENT:

В

ENTRY MONTH: 19950

AB Two isozymes of rice alpha-amylases expressed and secreted by recombinant yeast were purified by immunoaffinity chromatography by using cross-reactive antibody. Antibodies raised against partially purified barley alpha-amylase adsorbed rice alpha-amylases in fermentation broth by

a cross-reaction. By use of these antibodies as ligands, rice alpha-amylases were concentrated and purified to a high degree in one-step

immunoaffinity chromatography. Because of the differences in the contaminating impurities between the barley alpha-amylase (antigen) from barley malt and rice alpha-amylases (target protein)

secreted from yeast, the high purity of eluted alpha-amylases was attained

without the use of highly purified antigen for immunization. Utilization of cross-reactive antibodies in immunoaffinity chromatography is useful for the purification of recombinant proteins in the absence of a sufficient amount and high enough purity of the target proteins to be purified.

L9 ANSWER 2 OF 4 MEDLINE

ACCESSION NUMBER: 93366170 MEDLINE

DOCUMENT NUMBER: 93366170

TITLE: Comparison of barley malt alpha-amylase

isozymes 1 and 2: construction of cDNA hybrids by in vivo

recombination and their expression in yeast.

AUTHOR: Juge N; Sogaard M; Chaix J C; Martin-Eauclaire M F;

Svensson B; Marchis-Mouren G; Guo X J

CORPORATE SOURCE: Laboratoire BBMN, Faculte des Sciences et Techniques de

Saint-Jerome, Universite d'Aix-Marseille III, France..

SOURCE: GENE, (1993 Aug 25) 130 (2) 159-66.

Journal code: FOP. ISSN: 0378-1119.

PUB. COUNTRY: Netherlands

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199312

AB Germinating barley produces two alpha-amylase isozymes, AMY1 and AMY2, having 80% amino acid (aa) sequence identity and differing with respect to

a number of functional properties. Recombinant AMY1 (re-AMY1) and AMY2 (re-AMY2) are produced in yeast, but whereas all re-AMY1 is secreted, re-AMY2 accumulates within the cell and only traces are secreted. Expression of AMY1::AMY2 hybrid cDNAs may provide a means of understanding

the difference in **secretion** efficiency between the two isozymes. Here, the efficient homologous recombination system of the yeast, Saccharomyces cerevisiae, was used to generate hybrids of barley AMY with the N-terminal portion derived from AMY1, including the signal peptide (SP), and the C-terminal portion from AMY2. Hybrid cDNAs were thus generated that encode either the SP alone, or the SP followed by the N-terminal 21, 26, 53, 67 or 90 aa from AMY1 and the complementary C-terminal sequences from AMY2. Larger amounts of re-AMY are secreted by hybrids containing, in addition to the SP, 53 or more aa of AMY1. In contrast, only traces of re-AMY are secreted for hybrids having 26 or fewer aa of AMY1. In this case, re-AMY hybrid accumulates intracellularly.

Transformants secreting hybrid enzymes also accumulated some $\operatorname{re-AMY}$ within

the cell. The AMY1 SP, therefore, does not ensure re-AMY2 secretion and a certain portion of the N-terminal sequence of AMY1

is required for secretion of a re-AMY1::AMY2 hybrid.

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1998:229583 CAPLUS

DOCUMENT NUMBER:

128:229665

TITLE:

Foodstuffs made from malted cereals

which when consumed can induce antisecretory proteins

INVENTOR (S):

Goeransson, Leif; Lange, Stefan; Loennroth, Ivar Svenska Lantmaennen Riksfoerbund Ek Foer, Swed.

PATENT ASSIGNEE(S): SOURCE:

Swed., 8 pp. CODEN: SSXXAY

DOCUMENT TYPE:

Patent

LANGUAGE:

Swedish

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.														DATE			
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	SE	9604		Α		19971222												
	WO	9821978					19980528			WO 1997-SE1918				8	19971114			
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															KG,			
			LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,	NO,	NZ,	PL,
			PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,	UA,	UG,	US,
			UΖ,	VN,	YU,	ZW,	AM,	ΑZ,	BY,	KG,	KZ,	MD,	RU,	ТJ,	TM			
		RW:	GH,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	AT,	BE,	CH,	DE,	DK,	ES,	FI,	FR,
			GB,	GR,	ΙE,	IT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,	CM,	GΑ,
			GN,	ML,	MR,	NE,	SN,	TD,	TG									
AU 9850771				A1 19980610					AU 1998-50771					19971114				
	AU 719051				B2 20000504													
	ΕP	P 942660			A1 19990922				EP 1997-913633				3	19971114				
		R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	IT,	LI,	LU,	NL,	SE,	MC,	PT,
			ΙE,	LT,	LV,	FI												
NO 9902411					A 19990520				NO 1999-2411					19990520				
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3 D	D										,			_			_	

AΒ Products are disclosed which have enzymic activity for prodn. of foodstuffs, including fodder, which after consumption can induce antisecretory proteins, as well as foodstuffs produced in this manner. Products with enzymic activity can be, e.g., malted cereals. These products can be used to prevent excessive gastroenteric secretion and loss of electrolytes.

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2000 ACS ACCESSION NUMBER: 1993:620510 CAPLUS

DOCUMENT NUMBER:

119:220510

TITLE:

Comparison of barley malt

.alpha.-amylase isozymes 1 and 2: Construction of

CDNA

hybrids by in vivo recombination and their expression

in yeast

AUTHOR (S):

Juge, Nathalie; Soegaard, Morten; Chaix, Jean Claude;

Martin-Eauclaire, Marie France; Svensson, Birte;

Marchis-Mouren, Guy; Guo, Xiao Jun

CORPORATE SOURCE:

Fac. Sci. Tech. St.-Jerome, Univ. Aix-Marseille III,

Marseille, 13397, Fr.

SOURCE:

Gene (1993), 130(2), 159-66

DOCUMENT TYPE:

CODEN: GENED6; ISSN: 0378-1119 Journal

LANGUAGE:

English

AB Germinating barley produces two .alpha.-amylase isoenzymes, AMY1 and AMY2,

having 80% amino acid (aa) sequence identity and differing with respect to

a no. of functional properties. Recombinant AMY1 (re-AMY1) and AMY2 (re-AMY2) are produced in yeast, but whereas all re-AMY1 is secreted, re-AMY2 accumulates within the cell and only traces are secreted. Expression of AMY1::AMY2 hybrid cDNAs may provide a means of understanding

the difference in **secretion** efficiency between the two isoenzymes. Here, the efficient homologous recombination system of the yeast, Saccharomyces cerevisiae, was used to generate hybrids of barley AMY with the N-terminal portion derived from AMY1, including the signal peptide (SP), and the C-terminal portion from AMY2. Hybrid cDNAs were thus generated that encode either the SP alone, or the SP followed by the N-terminal 21, 26, 53, 67 or 90 aa from AMY1 and the complementary C-terminal sequences from AMY2. Larger amts. of re-AMY are secreted by hybrids contg., in addn. to the SP, 53 or more aa of AMY1. In contrast, only traces of re-AMY are secreted for hybrids having 26 or fewer aa of AMY1. In this case, re-AMY hybrid accumulates intracellularly.

Transformants secreting hybrid enzymes also accumulated some $\operatorname{re-AMY}$ within

the cell. The AMY1 SP, therefore, does not ensure re-AMY2 secretion and a certain portin of the N-terminal sequence of AMY1 is required for secretion of a re-AMY1::AMY2 hybrid.

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.39	26.54
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
• • •	ENTRY	SESSION
CA SUBSCRIBER PRICE	-1.67	-1.67

STN INTERNATIONAL LOGOFF AT 12:47:20 ON 02 SEP 2000

9 ANSWER 2 OF 5 FSTA COPYRIGHT 2001 IFIS

ACCESSION NUMBER: 92 (01):M0114 FSTA FS FSTA TITLE: [Amino acid composition and

biological value of protein-enriched biscuits.]

AUTHOR: Voronetskene, V. I.; Mikalauskaite, D. A.

CORPORATE SOURCE: Lab. Ratsional'nogo Pitaniya Cheloveka, Vil'nyuskii

Univ., Vilnius, USSR

SOURCE: Voprosy Pitaniya, (1991) No. 2, 54-57, 6 ref.

ISSN: 0042-8833.

DOCUMENT TYPE: Journal

AA

LANGUAGE: Russian SL English

AB Amino acid (AA) composition and AA score were studied

for 5 brands of biscuits enriched with $5.8-8.7~\mathrm{g}/100~\mathrm{g}$ dried milk products

(skim milk or buttermilk) or with 0.6-6.2 g/100 g soy flour. Biological value of the biscuits was also calculated from the sum of essential AA; ratio of essential AA to total N; AA score; and coeff. of variation for

score. Results (tabulated) showed that biscuits enriched with dried skim milk or dried buttermilk tended to contain more lysine

(2.67-3.11 g/100 g) than those enriched with soy flour (1.43-2.33 g/100 g)

and had an improved AA balance as indicated by the lower coeff. of variation for AA score (31-41 vs. 47-52). Comparison of another brand of biscuits enriched with whey concentrate (11.7 g/100 g) or malted barley (5% flour replacement) showed that enrichment with malted barley (obtained as a by-product from the brewing industry) increased lysine content from 1.18 to 1.58 g/100 g and essential AA:N ratio from 1.39 to 1.49. (ALR)

ANSWER 6 OF 7 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER:

1964:41993 CAPLUS

DOCUMENT NUMBER: ORIGINAL REFERENCE NO.: 60:7410d-f

60:41993

TITLE:

Ouantitative changes in free amino

acids during malting of two barley varieties Robbins, G. S.; Chesters, Joan; Dickson, A. D.

AUTHOR(S):

U.S. Dept. of Agr., Madison, WI

CORPORATE SOURCE: SOURCE:

Am. Soc. Brewing Chemists (1963) 141-8

DOCUMENT TYPE:

Journal

LANGUAGE:

Unavailable

Changes in free amino acids during malting

were studied with particular emphasis on the interaction of growth time, drying treatment, and barley variety. Atlas and Kindred varieties were chosen for the investigation since these varieties might exhibit appreciable differences in free amino acid

levels. Chem. analysis of the barleys is given. Stainless steel, screen-bottomed cans were used to contain 225 g. (dry basis) barley throughout the malting process. The barley was steeped in tapwater,

which

was changed twice daily. Temp. during steeping was maintained at 16.degree.. Air circulating through the germinating samples was held at 93% relative humidity. Half of each malting sample was immediately

dried, and half was stored in dry ice. At the end of the entire malting period, all stored sampes were kiln-dried together with electrically heated air at different periods of time. Samples were ground in a Wiley mill and enzymes inactivated and extn. of amino acids conducted by the method of Hunter, et al. (CA 49, 11063e). Amino acids were detd. by the method of Moore, et al. (CA 52, 15347f). It was found that time of germination produced the greatest change in total free amino acids. Influence of kiln drying compared with freeze-drying was a little less, however, kilning resulted in the most selective variation in certain amino acids. Data suggested the possibility of important correlations between free amino acids in malting barleys and processing factors used to evaluate processing performance.

T.4 ANSWER 7 OF 7 CAPLUS COPYRIGHT 2002 ACS cited

ANSWER 5 OF 5 CAPLUS COPYRIGHT 2001 ACS

DUPLICATE 1

ACCESSION NUMBER:

1972:111657 CAPLUS

DOCUMENT NUMBER:

76:111657

TITLE:

Amino acid composition of

malted cereals and malt sprouts

AUTHOR(S):

Robbins, G. S.; Pomeranz, Y.

CORPORATE SOURCE:

Barley Malt Lab., U. S. Dep. Agric., Madison, Wis.,

USA

SOURCE:

Amer. Soc. Brew. Chem., Proc. (1971) 15-21

CODEN: ASBCA3

less ammonia and glutamic acid, than the unmalted cereals.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Crude protein and amino acid compns. were detd. in

barley, wheat, oats, rye, and tricale, and also in 5-day malts and in

malt

sprouts. There was a fairly uniform pattern of changes in amino acid compn. of the 5 cereal species during malting. The most notable feature of the sprout proteins was their consistently high lysine, a limiting amino acid in practically all cereal grains. The sprouts contained 1.3-2.1-fold as much protein as the malts. The proteins of the malts contained more lysine, arginine, aspartic acid, alanine, valine, isoleucine, and leucine, and

cited

L11 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2001 ACS

ACCESSION NUMBER: 1956:30292 CAPLUS

DOCUMENT NUMBER: 50:30292 ORIGINAL REFERENCE NO.: 50:6078c-e

TITLE:

Constitution of a modified starch from malted

barley

AUTHOR (S): CORPORATE SOURCE: Aspinall, G. O.; Hirst, E. L.; McArthur, W.

Univ. Edinburgh, UK

SOURCE:

J. Chem. Soc. (1955) 3075-81

DOCUMENT TYPE: LANGUAGE:

Journal Unavailable

A starch isolated from malted barley contained 26%

amylose as detd. by potentiometric iodine titration. This is higher than that found in the starch from the unmalted barley. The starch was fractionated into amylose and amylopectin by the method of Higgenbottom and Morrison (C.A. 43, 5615h). Methylation showed that the amylose consisted of unbranched chains with an av. of about 330 glucose residues. Methylation end-group assay, supported by amylolysis and periodate oxidation, indicated the amylopectin contained the normal type of branched structure but with one nonreducing end group per 18 .+-. 1 glucose residues instead of the 26 found in the starch of unmalted barley. It is concluded that during the malting of barley the

amylopectin

has undergone enzymic attack causing shortening of the outer chains but with retention of the branched structure, while the amylose component has been relatively little degraded.

(FILE 'HOME' ENTERED AT 12:40:54 ON 02 SEP 2000)

	FILE MEDLIN	E, CAPLUS' ENTERED AT 12:41:07 ON 02 SEP 200	0
L1	11 S	MALTED CEREAL?	
. L2	854 S	BARLEY MALT	
L3	67 S	WHEAT MALT	
L4	25 S	MALTED WHEAT	
L5	937 S	L1 OR L2 OR L3 OR L4	
L6	18 S	ANTISECRETORY (W) PROTEIN?	
L7	1 S	L6 AND L5	
L8	385974 S	SECRETION	
		•	
=> s	18 and 15		
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тα	. 4 T.R	AND 1.5	